Jingxu Kent Zheng

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Textured Electrodes: Manipulating Builtâ€In Crystallographic Heterogeneity of Metal Electrodes via Severe Plastic Deformation. Advanced Materials, 2022, 34, e2106867.	21.0	62
2	Alignment and strengthening effect of <i>β</i> [′] precipitates in Mg-Gd-Y-Zr during ageing process studied by HAADF-STEM and GPA. Philosophical Magazine Letters, 2022, 102, 71-80.	1.2	2
3	Production of fast-charge Zn-based aqueous batteries via interfacial adsorption of ion-oligomer complexes. Nature Communications, 2022, 13, 2283.	12.8	47
4	Understanding the Reversible Electrodeposition of Al in Low-Cost Room Temperature Molten Salts. ECS Meeting Abstracts, 2022, MA2022-01, 1919-1919.	0.0	0
5	Regulating electrodeposition morphology in high-capacity aluminium and zinc battery anodes using interfacial metal–substrate bonding. Nature Energy, 2021, 6, 398-406.	39.5	169
6	Stabilizing Zinc Electrodeposition in a Battery Anode by Controlling Crystal Growth. Small, 2021, 17, e2101798.	10.0	58
7	Atomic-scale observation on the precipitates in various aging stages of Mg–Gd–Y–Cu alloy. Journal of Alloys and Compounds, 2021, 887, 161423.	5.5	7
8	Controlling electrochemical growth of metallic zinc electrodes: Toward affordable rechargeable energy storage systems. Science Advances, 2021, 7, .	10.3	209
9	On the crystallography and reversibility of lithium electrodeposits at ultrahigh capacity. Nature Communications, 2021, 12, 6034.	12.8	70
10	(Electrodeposition Division Early Career Investigator Award Address) Regulating Electrochemical Deposition of Metals at Rechargeable Battery Electrodes. ECS Meeting Abstracts, 2021, MA2021-02, 690-690.	0.0	0
11	Engineering Multiscale Coupled Electron/Ion Transport in Battery Electrodes. ACS Nano, 2021, 15, 19014-19025.	14.6	23
12	Proton Intercalation/Deâ€Intercalation Dynamics in Vanadium Oxides for Aqueous Aluminum Electrochemical Cells. Angewandte Chemie - International Edition, 2020, 59, 3048-3052.	13.8	122
13	Proton Intercalation/Deâ€Intercalation Dynamics in Vanadium Oxides for Aqueous Aluminum Electrochemical Cells. Angewandte Chemie, 2020, 132, 3072-3076.	2.0	13
14	Thermodynamic re-assessment of the Mg–Gd binary system coupling the microstructure evolution during ageing process. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 68, 101712.	1.6	12
15	Designing electrolytes with polymerlike glass-forming properties and fast ion transport at low temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26053-26060.	7.1	82
16	Regulating the growth of aluminum electrodeposits: towards anode-free Al batteries. Journal of Materials Chemistry A, 2020, 8, 23231-23238.	10.3	29
17	Spontaneous and field-induced crystallographic reorientation of metal electrodeposits at battery anodes. Science Advances, 2020, 6, eabb1122.	10.3	143
18	Regulating electrodeposition morphology of lithium: towards commercially relevant secondary Li metal batteries. Chemical Society Reviews, 2020, 49, 2701-2750.	38.1	310

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19	Study on the precipitates in various aging stages and composite strengthening effect of precipitates and long-period stacking ordered structure of Mg–Gd–Y–Ni alloy. Journal of Materials Research, 2020, 35, 172-184.	2.6	4
20	Microscopic Origins of Caging and Equilibration of Self-Suspended Hairy Nanoparticles. Macromolecules, 2019, 52, 8187-8196.	4.8	15
21	Reversible epitaxial electrodeposition of metals in battery anodes. Science, 2019, 366, 645-648.	12.6	1,097
22	On the Reversibility and Fragility of Sodium Metal Electrodes. Advanced Energy Materials, 2019, 9, 1901651.	19.5	48
23	Precipitation of T ₁ phase in 2198 Al–Li alloy studied by atomic-resolution HAADF-STEM. Journal of Materials Research, 2019, 34, 3535-3544.	2.6	18
24	Physical Orphaning versus Chemical Instability: Is Dendritic Electrodeposition of Li Fatal?. ACS Energy Letters, 2019, 4, 1349-1355.	17.4	80
25	Atomic-scale characterization of interfaces between 2A70 aluminum alloy matrix and Cu-enriched layer after electropolishing. Materials Characterization, 2019, 150, 150-154.	4.4	8
26	On the strengthening precipitate structures in Mg-Gd-Ag alloy: An atomic-resolution investigation using Cs-corrected STEM. Materials Letters, 2019, 238, 66-69.	2.6	11
27	Experimental and DFT characterization of η′ nano-phase and its interfaces in Al Zn Mg Cu alloys. Acta Materialia, 2019, 164, 207-219.	7.9	113
28	Nonplanar Electrode Architectures for Ultrahigh Areal Capacity Batteries. ACS Energy Letters, 2019, 4, 271-275.	17.4	32
29	Cluster on interface of LPSO phase and matrix in Mg-Gd-Y-Ni alloy: Atomic scale insight from HAADF-STEM. Materials Letters, 2019, 235, 71-75.	2.6	6
30	Unveiling the Interfaces between <i>β</i> ′ Precipitates in Mg–Gd–Y–Zr Alloy: Insights from Atomicâ€Sc HAADFâ€STEM. Advanced Engineering Materials, 2018, 20, 1700730.	ale 3.5	2
31	Degradation of precipitation hardening in 7075 alloy subject to thermal exposure: A Cs-corrected STEM study. Journal of Alloys and Compounds, 2018, 741, 656-660.	5.5	21
32	Nano-scale precipitation and phase growth in Mg-Gd binary alloy: An atomic-scale investigation using HAADF-STEM. Materials and Design, 2018, 137, 316-324.	7.0	56
33	Solid electrolyte interphases for high-energy aqueous aluminum electrochemical cells. Science Advances, 2018, 4, eaau8131.	10.3	186
34	Interphases in Lithium–Sulfur Batteries: Toward Deployable Devices with Competitive Energy Density and Stability. ACS Energy Letters, 2018, 3, 2104-2113.	17.4	54
35	Precipitation in an Al-Zn-Mg-Cu alloy during isothermal aging: Atomic-scale HAADF-STEM investigation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 691, 60-70.	5.6	112
36	Segregation of solute atoms in Mg–Ce binary alloy: atomic-scale novel structures observed by HAADF-STEM. Philosophical Magazine, 2017, 97, 1498-1508.	1.6	14

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37	Mechanical Properties and Deformation Mechanisms of Mg-Gd-Y-Zr Alloy at Cryogenic and Elevated Temperatures. Journal of Materials Engineering and Performance, 2017, 26, 590-600.	2.5	6
38	Precipitation in Mg–Nd–Y–Zr–Ca Alloy during Isothermal Aging: A Comprehensive Atomic‧caled Study by Means of HAADF‧TEM. Advanced Engineering Materials, 2017, 19, 1600244.	3.5	7
39	Unexpected Feâ€enriched compounds observed in Mg–Ce alloy: An atomicâ€scale STEM investigation. Scanning, 2016, 38, 783-791.	1.5	2
40	Nanoâ€Size Zirconiumâ€Enriched Cores in Mg–Gd–Y–Zr: An Atomicâ€Scale HAADF–STEM Study. Advanc Engineering Materials, 2016, 18, 1332-1336.	ed 3.5	2
41	The Effect of Thermal Exposure on the Microstructures and Mechanical Properties of 2198 Al–Li Alloy. Advanced Engineering Materials, 2016, 18, 1225-1233.	3.5	12
42	Quantitative Control of Pore Size of Mesoporous Carbon Nanospheres through the Selfâ€Assembly of Diblock Copolymer Micelles in Solution. Small, 2016, 12, 3155-3163.	10.0	117
43	Nano-Sized Cuboid-Shaped Phase in Mg–Nd–Y Alloy and its Behavior During Isothermal Aging. Microscopy and Microanalysis, 2016, 22, 1244-1250.	0.4	9
44	Precipitation in Mg-Sm binary alloy during isothermal ageing: atomic-scale insights from scanning transmission electron microscopy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 304-311.	5.6	25
45	Precipitation in Mg-Gd-Y-Zr Alloy: Atomic-scale insights into structures and transformations. Materials Characterization, 2016, 117, 76-83.	4.4	61
46	Interactions between long-period stacking ordered phase and β′ precipitate in Mg–Gd–Y–Zn–Zr alloy: Atomic-scale insights from HAADF-STEM. Materials Letters, 2016, 176, 223-227.	2.6	32
47	Unravelling the Structure of γ″ in Mg-Gd-Zn: An Atomic-scale HAADF-STEM Investigation. Materials Characterization, 2016, 120, 345-348.	4.4	26
48	AZ91 Magnesium Alloy/Porous Hydroxyapatite Composite for Potential Application in Bone Repair. Journal of Materials Science and Technology, 2016, 32, 858-864.	10.7	49
49	Atomicâ€scale characterization of the equilibrium <i>β</i> phase in Mgâ€Ndâ€Y alloy by means of HAADFâ€STEN Scanning, 2016, 38, 743-746.	1. 1.5	6
50	Electro-deposited calcium phosphate compounds on graphene sheets: Blossoming flowers. Materials Letters, 2016, 179, 122-125.	2.6	2
51	Atomic imaging of the coherent interface between orientedly-attached Mn3O4 nanoparticles. Materials Characterization, 2016, 117, 144-148.	4.4	3
52	Segregation of rare earth atoms in Mg-Gd-Y-Zr alloy after a 6-year natural ageing at room temperature: Atomic-scale direct imaging. Materials Letters, 2016, 174, 86-90.	2.6	6
53	Facile template-free synthesis of vertically aligned polypyrrole nanosheets on nickel foams for flexible all-solid-state asymmetric supercapacitors. Nanoscale, 2016, 8, 8650-8657.	5.6	64
54	Novel structures observed in Mg–Gd–Y–Zr during isothermal ageing by atomic-scale HAADF-STEM. Materials Letters, 2015, 152, 287-289.	2.6	29